

Abstract:

The invention relates to the coloured laser marking and laser inscription of plastics based on welding of a polymer-containing inscription medium to the plastic surface, including to a process for the permanent and abrasion-resistant coloured inscription or marking of plastics, in which use is made of a layer system which contains two layers lying one on top of the other and separated by a support film, where the first layer contains a plastic which comprises an energy absorber intrinsically or as a layer, and the second layer applied to a support film serves as inscription medium and comprises a colorant and a polymer component, where the polymer component is welded to the plastic surface under the action of laser light during the inscription/markings.